

Please amend the Application as follows.

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application.

Claim 1. (Previously Presented) A process for the continuous preparation of thermoplastic polyurethane elastomers in which,

one or more polyisocyanates (A) and

a mixture (B), with Zerewitinoff-active hydrogen atoms, comprising

B1) 1 to 85 equivalent-%, with respect to the isocyanate groups in (A), of one or more compounds with on average at least 1.8 Zerewitinoff-active hydrogen atoms and an average molecular weight M_n of 450 to 10000,

B2) 15 to 99 equivalent-% (with respect to the isocyanate groups in (A)) of one or more chain lengthening agents with an average at least 1.8 Zerewitinoff-active hydrogen atoms and a molecular weight of 60 to 400, and

0-20 wt.%, with respect to the total amount of TPU, of further auxiliary agents and additives (C)

are continuously introduced into an apparatus selected from the group consisting of a static mixer and an extruder,

wherein the temperatures of components (A) and (B) before introduction into said apparatus are each independently between 90°C and 180°C, the difference between the temperatures of components (A) and (B), before introduction into said apparatus, is less than 20°C, and components (A) and (B) are homogeneously mixed in said apparatus and have a residence time within said apparatus of less than 5 seconds; and

a homogeneous mixture of (A) and (B) is removed from said apparatus and introduced continuously into and reacted in a reactor selected from the group consisting of an extruder and a tubular reactor, thereby forming continuously said thermoplastic polyurethane elastomer.

Claims 2 - 11. (Cancelled)

Claim 12. (Previously Presented) The process of Claim 1 wherein said apparatus is said static mixer.

Claim 13. (Previously Presented) The process of Claim 12 wherein said static mixer has a ratio of length to diameter of 8:1 to 16:1.

Claim 14. (Cancelled)

Claim 15. (New) A process for the continuous preparation of thermoplastic polyurethane elastomers in which,

one or more polyisocyanates (A) and

a mixture (B), with Zerewitinoff-active hydrogen atoms, comprising

B1) 1 to 85 equivalent-%, with respect to the isocyanate groups in (A), of one or more compounds with on average at least 1.8 Zerewitinoff-active hydrogen atoms and an average molecular weight M_n of 450 to 10000,

B2) 15 to 99 equivalent-% (with respect to the isocyanate groups in (A)) of one or more chain lengthening agents with an average at least 1.8 Zerewitinoff-active hydrogen atoms and a molecular weight of 60 to 400, and

0-20 wt.%, with respect to the total amount of TPU, of further auxiliary agents and additives (C)

are continuously introduced into an extruder, said extruder being a twin shaft extruder,

wherein the temperatures of components (A) and (B) before introduction into said extruder are each independently between 90°C and 180°C, the difference between the temperatures of components (A) and (B), before

introduction into said extruder, is less than 20°C, and components (A) and (B) are homogenously mixed in said extruder and have a residence time within said extruder of less than 5 seconds; and a homogenous mixture of (A) and (B) is removed from said apparatus and introduced continuously into and reacted in a reactor selected from the group consisting of an extruder and a tubular reactor, thereby forming continuously said thermoplastic polyurethane elastomer.